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 PALM INTRANET

Inventor Information for 09/848291

Inventor Name	City	State/Country
LAM, THANH V.	HURLEY	NEW YORK

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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [A Metadata Catalog Service for Data Intensive Applications](#)

Gurmeet Singh, Shishir Bharathi, Ann Chervenak, Ewa Deelman, Carl Kesselman, Mary Manohar, Sonal Patil, Laura Pearlman

November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**Full text available: [pdf \(178.25 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Advances in computational, storage and network technologies as well as middle ware such as the Globus Toolkit allow scientists to expand the sophistication and scope of data-intensive applications. These applications produce and analyze terabytes and petabytes of data that are distributed in millions of files or objects. To manage these large data sets efficiently, metadata or descriptive information about the data needs to be managed. There are various types of metadata, and it is likely that a ...

2 [Formalizing the safety of Java, the Java virtual machine, and Java card](#)

Pieter H. Hartel, Luc Moreau

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4Full text available: [pdf \(442.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Crite ...

Keywords: Common criteria, programming**3** [Protection and the control of information sharing in multics](#)

Jerome H. Saltzer

July 1974 **Communications of the ACM**, Volume 17 Issue 7Full text available: [pdf \(1.75 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The design of mechanisms to control the sharing of information in the Multics system is described. Five design principles help provide insight into the tradeoffs among different possible designs. The key mechanisms described include access control lists, hierarchical


control of access specifications, identification and authentication of users, and primary memory protection. The paper ends with a discussion of several known weaknesses in the current protection mechanism design.

Keywords: Multics, access control, authentication, computer utilities, descriptors, privacy, proprietary programs, protected subsystems, protection, security, time-sharing systems, virtual memory

4 Information systems security design methods: implications for information systems development

Richard Baskerville

December 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 4

Full text available:  [pdf\(3.44 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The security of information systems is a serious issue because computer abuse is increasing. It is important, therefore, that systems analysts and designers develop expertise in methods for specifying information systems security. The characteristics found in three generations of general information system design methods provide a framework for comparing and understanding current security design methods. These methods include approaches that use checklists of controls, divide functional req ...


Keywords: checklists, control, integrity, risk analysis, safety, structured systems analysis and design, system modeling



5 Verifying Security

Maureen Harris Cheheyli, Morrie Gasser, George A. Huff, Jonathan K. Millen

September 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 3


Full text available:  [pdf\(4.68 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Automatic parsing for content analysis

Frederick J. Damerau

June 1970 **Communications of the ACM**, Volume 13 Issue 6

Full text available:  [pdf\(4.07 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


Although automatic syntactic and semantic analysis is not yet possible for all of an unrestricted natural language text, some applications, of which content analysis is one, do not have such a stringent coverage requirement. Preliminary studies show that the Harvard Syntactic Analyzer can produce correct and unambiguous identification of the subject and object of certain verbs for approximately half of the relevant occurrences. This provides a degree of coverage for content analysis variable ...

Keywords: content analysis, information retrieval, language analysis, natural language processing, parsing, syntactic analysis, text processing

7 System development methodology using LOGOS

David B. Allen, Mark R. Dempsey, Leslie H. Goldsmith

January 1987 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL in transition**, Volume 17 Issue 4

Full text available:  [pdf\(1.32 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The development of applications written in APL has traditionally both benefited by and suffered from the freedom offered by the environment. A consequence of this freedom is that few applications are designed from the perspectives of consistency, modularity, and structure. This paper describes how LOGOS, a programming environment for APL, helps improve the development and maintenance of APL applications. Through the use of basic support facilities and integrated tools, LOGOS encourages a mo ...

8 (In)Formalism

John Beidler, Robert McCloskey, Yaodong Bi

May 2003 **Journal of Computing Sciences in Colleges**, Volume 18 Issue 5


Full text available:  [pdf\(136.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a "gentle" approach we are taking in our Data Structures and Algorithms course to introduce the use of formal notation as an aid in the specification and implementation of abstract data types. So that it can be included as comments within source code (and be processed by the *javadoc* utility), we chose a notation that relies upon only ASCII symbols, plus the ability to italicize, boldface, and form subscripts, superscripts, and horizontal lines.

9 Authentication in distributed systems: theory and practice

Butler Lampson, Martin Abadi, Michael Burrows, Edward Wobber

November 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 4

Full text available:  [pdf\(3.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We describe a theory of authentication and a system that implements it. Our theory is based on the notion of principal and a "speaks for" relation between principals. A simple principal either has a name or is a communication channel; a compound principal can express an adopted role or delegated authority. The theory shows how to reason about a principal's authority by deducing the other principals that it can speak for; authenticating a channel is one important application. We ...

Keywords: certification authority, delegation, group, interprocess communication, key distribution, loading programs, path name, principal, role, secure channel, speaks for, trusted computing base

10 A study of input device manipulation difficulties

Shari Trewin

April 1996 **Proceedings of the second annual ACM conference on Assistive technologies**

Full text available:  [pdf\(945.60 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: errors, input devices, input logging, keyboard, mouse, physical disability

11 Integrated object-oriented testing and development processes

John D. McGregor, Timothy D. Korson

September 1994 **Communications of the ACM**, Volume 37 Issue 9

Full text available:  [pdf\(19.79 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

12 Termination in language-based systems

Algis Rudys, Dan S. Wallach

May 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5
Issue 2

Full text available:  pdf(355.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Language run-time systems are increasingly being embedded in systems to support run-time extensibility via mobile code. Such systems raise a number of concerns when the code running in such systems is potentially buggy or untrusted. Although sophisticated access controls have been designed for mobile code and are shipping as part of commercial systems such as Java, there is no support for terminating mobile code short of terminating the entire language run-time. This article presents a c ...

Keywords: Applets, Internet, Java, resource control, soft termination, termination

13 Composing security policies with polymer

Lujo Bauer, Jay Ligatti, David Walker

June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation PLDI '05**, Volume 40
Issue 6

Full text available:  pdf(155.16 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce a language and system that supports definition and composition of complex run-time security policies for Java applications. Our policies are comprised of two sorts of methods. The first is *query* methods that are called whenever an untrusted application tries to execute a security-sensitive action. A query method returns a *suggestion* indicating how the security-sensitive action should be handled. The second sort of methods are those that perform state updates as the pol ...

Keywords: composable security policies, edit automata, program monitors, run-time enforcement, security automata

14 Invited papers on the frontiers of software practice: Component technology: what, where, and how?

Clemens Szyperski

May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Full text available:  pdf(874.15 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


 [Publisher Site](#)

Software components, if used properly, offer many software engineering benefits. Yet, they also pose many original challenges starting from quality assurance and ranging to architectural embedding and composability. In addition, the recent movement towards services, as well as the established world of objects, causes many to wonder what purpose components might have. This extended abstract summarizes the main points of my Frontiers of Software Practice (FOSP) talk at ICSE 2003. The topics covered ...

15 Authentication in distributed systems: theory and practice

Butler Lampson, Martín Abadi, Michael Burrows, Edward Wobber

September 1991 **ACM SIGOPS Operating Systems Review , Proceedings of the thirteenth ACM symposium on Operating systems principles**, Volume 25
Issue 5

Full text available:  pdf(2.33 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a theory of authentication and a system that implements it. Our theory is based on the notion of principal and a "speaks for" relation between principals. A simple principal either has a name or is a communication channel; a compound principal can

express an adopted role or delegation of authority. The theory explains how to reason about a principal's authority by deducing the other principals that it can speak for; authenticating a channel is one important application. We use the th ...

16 The Felix File Server

M. Fridrich, W. Older

December 1981 **Proceedings of the eighth ACM symposium on Operating systems principles**

Full text available:  pdf(600.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes Felix - a File Server for an experimental distributed multicomputer system. Felix is designed to support a variety of file systems, virtual memory, and database applications with access being provided by a local area network. Its interface combines block oriented data access with a high degree of crash resistance and a comprehensive set of primitives for controlling data sharing and consistency. An extended set of access modes allows increased concurrency over conventio ...

17 On automated message processing in electronic commerce and work support systems: speech act theory and expressive felicity

Steven O. Kimbrough, Scott A. Moore

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

Full text available:  pdf(502.20 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Electronic messaging, whether in an office environment or for electronic commerce, is normally carried out in natural language, even when supported by information systems. For a variety of reasons, it would be useful if electronic messaging systems could have semantic access to, that is, access to the meanings and contents of, the messages they process. Given that natural language understanding is not a practicable alternative, there remain three approaches to delivering systems with semant ...

Keywords: electronic commerce, formal language for business communication, speech act theory

18 Industrial experience with design patterns

Kent Beck, Ron Crocker, Gerard Meszaros, John Vlissides, James O. Coplien, Lutz Dominick, Frances Paulisch

May 1996 **Proceedings of the 18th international conference on Software engineering**

Full text available:  pdf(1.39 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
[Publisher Site](#)

A design pattern is a particular prose form of recording design information such that designs which have worked well in the past can be applied again in similar situations in the future. The availability of a collection of design patterns can help both the experienced and the novice designer recognize situations in which design reuse could or should occur. We have found that design patterns: 1) provide an effective "shorthand" for communicating complex concepts effectively between designers, 2) ...

Keywords: best practices, design information recording, design patterns, design reuse, industrial experience, information sharing, software architecture documentation, software reusability, system documentation

19 Enhancing explanation coherence with rhetorical strategies

Mark T. Maybury

April 1989 **Proceedings of the fourth conference on European chapter of the Association for Computational Linguistics**

Full text available:  pdf(484.06 KB)



[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper discusses the application of a previously reported theory of explanation rhetoric (Maybury, 1988b) to the task of explaining constraint violations in a hybrid rule/frame based system for resource allocation (Dawson et al, 1987). This research illustrates how discourse strategies of explanation, textual connectives, and additional justification knowledge can be applied to enhance the cohesiveness, structure, and clarity of knowledge based system explanations.

20 Evaluating the portability of revision rules for incremental summary generation

Jacques Robin

June 1996 **Proceedings of the 34th annual meeting on Association for Computational Linguistics**

Full text available:  pdf(821.07 KB)



[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents a quantitative evaluation of the portability to the stock market domain of the revision rule hierarchy used by the system STREAK to incrementally generate newswire sports summaries. The evaluation consists of searching a test corpus of stock market reports for sentence pairs whose (semantic and syntactic) structures respectively match the triggering condition and application result of each revision rule. The results show that at least 59% of all rule classes are fully portabl ...

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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